

PAGE: 1

RAW SEQUENCE LISTING

PATENT APPLICATION US/09/115,832A

DATE: 11/09/1998
TIME: 15:25:05

N.A.

Input Set: I115832A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

See p. 5
new format

ENTERED

```

1  <110> APPLICANT: Ebner et al.
2  <120> TITLE OF INVENTION: Interleukin-20
3  <130> FILE REFERENCE: PF399
4  <140> CURRENT APPLICATION NUMBER: US/09/115,832A
5  <141> CURRENT FILING DATE: 1998-07-15
6  <150> EARLIER APPLICATION NUMBER: 60/052,870
7  <151> EARLIER FILING DATE: 1997-07-16
8  <150> EARLIER APPLICATION NUMBER: 60/060,140
9  <151> EARLIER FILING DATE: 1997-09-26
10 <160> NUMBER OF SEQ ID NOS: 11
11 <170> SOFTWARE: PatentIn Ver. 2.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 705
14 <212> TYPE: DNA
15 <213> ORGANISM: Homo sapiens
16 <400> SEQUENCE: 1
17   tccaggcggg cagcagctgc aggcgtgacct tgcagcttgg cggaatggac tggcctcaca 60
18   acctgctgtt tcttcttacc atttccatct tccctggggct gggccagccc aggagcccca 120
19   aaagcaagag gaaggggcaa gggcggcctg ggcccctggc ccttgccct caccaggtgc 180
20   cactggacct ggtgtcacgg atgaaacctg atgcccgcat ggaggagat gagaggaaca 240
21   tcgaggagat ggtggcccag ctgaggaaca gctcagagct ggcccagaga aagtgtgagg 300
22   tcaacttgca gctgtggatg tccaacaaga ggagcctgtc tccctggggc tacagcatca 360
23   accacgacct cagccgtatc cccgtggacc tgccggaggc acggtgcctg tgtctgggct 420
24   gtgtgaaccc cttcaccatg caggaggacc gcagcatggt gagcgtgccg gtgttcagcc 480
25   aggttcctgt gcgccgccgc ctctgcccgc caccgccccg cacagggcct tgccgccagc 540
26   gcgcagtcac ggagaccatc gctgtgggct gcacctgcat cttctgaatt acctggccca 600
27   gaagccaggc cagcagcccg agaccatcct ccttgcacct ttgtgccaag aaaggcctat 660
28   gaaaagtaaa cactgacttt tgaaagcaaa aaaaaaaaaa aaaaa 705
29 <210> SEQ ID NO 2
30 <211> LENGTH: 180
31 <212> TYPE: PRT
32 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 2
34   Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile Phe
35       1             5             10             15
36   Leu Gly Leu Gly Gln Pro Arg Ser Pro Lys Ser Lys Arg Lys Gly Gln
37             20             25             30
38   Gly Arg Pro Gly Pro Leu Ala Pro Gly Pro His Gln Val Pro Leu Asp
39             35             40             45
40   Leu Val Ser Arg Met Lys Pro Tyr Ala Arg Met Glu Tyr Glu Arg
41             50             55             60
42   Asn Ile Glu Glu Met Val Ala Gln Leu Arg Asn Ser Ser Glu Leu Ala
43             65             70             75             80
44   Gln Arg Lys Cys Glu Val Asn Leu Gln Leu Trp Met Ser Asn Lys Arg

```

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/115,832A

DATE: 11/09/1998
TIME: 15:25:05

Input Set: I115832A.RAW

```

45                      85                      90                      95
46      Ser Leu Ser Pro Trp Gly Tyr Ser Ile Asn His Asp Pro Ser Arg Ile
47                      100                      105                      110
48      Pro Val Asp Leu Pro Glu Ala Arg Cys Leu Cys Leu Gly Cys Val Asn
49                      115                      120                      125
50      Pro Phe Thr Met Gln Glu Asp Arg Ser Met Val Ser Val Pro Val Phe
51                      130                      135                      140
52      Ser Gln Val Pro Val Arg Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr
53      145                      150                      155                      160
54      Gly Pro Cys Arg Gln Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys
55                      165                      170                      175
56      Thr Cys Ile Phe
57                      180
58 <210> SEQ ID NO 3
59 <211> LENGTH: 155
60 <212> TYPE: PRT
61 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 3
63      Met Thr Pro Gly Lys Thr Ser Leu Val Ser Leu Leu Leu Leu Leu Ser
64      1                      5                      10                      15
65      Leu Glu Ala Ile Val Lys Ala Gly Ile Thr Ile Pro Arg Asn Pro Gly
66                      20                      25                      30
67      Cys Pro Asn Ser Glu Asp Lys Asn Phe Pro Arg Thr Val Met Val Asn
68                      35                      40                      45
69      Leu Asn Ile His Asn Arg Asn Thr Asn Thr Asn Pro Lys Arg Ser Ser
70                      50                      55                      60
71      Asp Tyr Tyr Asn Arg Ser Thr Ser Pro Trp Asn Leu His Arg Asn Glu
72      65                      70                      75                      80
73      Asp Pro Glu Arg Tyr Pro Ser Val Ile Trp Glu Ala Lys Cys Arg His
74                      85                      90                      95
75      Leu Gly Cys Ile Asn Ala Asp Gly Asn Val Asp Tyr His Met Asn Ser
76                      100                      105                      110
77      Val Pro Ile Gln Gln Glu Ile Leu Val Leu Arg Arg Glu Pro Pro His
78                      115                      120                      125
79      Cys Pro Asn Ser Phe Arg Leu Glu Lys Ile Leu Val Ser Val Gly Cys
80      130                      135                      140
81      Thr Cys Val Thr Pro Ile Val His His Val Ala
82      145                      150                      155
83 <210> SEQ ID NO 4
84 <211> LENGTH: 498
85 <212> TYPE: DNA
86 <213> ORGANISM: Homo sapiens
87 <220> FEATURE:
88 <221> NAME/KEY: misc_feature
89 <222> LOCATION: (13)
90 <223> OTHER INFORMATION: n equals a, t, g, or c
91 <220> FEATURE:
92 <221> NAME/KEY: misc_feature
93 <222> LOCATION: (58)
94 <223> OTHER INFORMATION: n equals a, t, g, or c

```

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/115,832ADATE: 11/09/1998
TIME: 15:25:05

Input Set: I115832A.RAW

95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <222> LOCATION: (173)
98 <223> OTHER INFORMATION: n equals a, t, g, or c
99 <220> FEATURE:
100 <221> NAME/KEY: misc_feature
101 <222> LOCATION: (179)
102 <223> OTHER INFORMATION: n equals a, t, g, or c
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: (213)
106 <223> OTHER INFORMATION: n equals a, t, g, or c
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: (288)
110 <223> OTHER INFORMATION: n equals a, t, g, or c
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (312)
114 <223> OTHER INFORMATION: n equals a, t, g, or c
115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (314)
118 <223> OTHER INFORMATION: n equals a, t, g, or c
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <222> LOCATION: (323)
122 <223> OTHER INFORMATION: n equals a, t, g, or c
123 <220> FEATURE:
124 <221> NAME/KEY: misc_feature
125 <222> LOCATION: (331)
126 <223> OTHER INFORMATION: n equals a, t, g, or c
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (337)
130 <223> OTHER INFORMATION: n equals a, t, g, or c
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (340)
134 <223> OTHER INFORMATION: n equals a, t, g, or c
135 <220> FEATURE:
136 <221> NAME/KEY: misc_feature
137 <222> LOCATION: (348)
138 <223> OTHER INFORMATION: n equals a, t, g, or c
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: (363)
142 <223> OTHER INFORMATION: n equals a, t, g, or c
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/115,832ADATE: 11/09/1998
TIME: 15:25:05

Input Set: I115832A.RAW

145 <222> LOCATION: (365)
146 <223> OTHER INFORMATION: n equals a, t, g, or c
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (369)
150 <223> OTHER INFORMATION: n equals a, t, g, or c
151 <220> FEATURE:
152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: (375)..(376)
154 <223> OTHER INFORMATION: n equals a, t, g, or c
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (386)
158 <223> OTHER INFORMATION: n equals a, t, g, or c
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (391)
162 <223> OTHER INFORMATION: n equals a, t, g, or c
163 <220> FEATURE:
164 <221> NAME/KEY: misc_feature
165 <222> LOCATION: (393)
166 <223> OTHER INFORMATION: n equals a, t, g, or c
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: (395)
170 <223> OTHER INFORMATION: n equals a, t, g, or c
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (398)
174 <223> OTHER INFORMATION: n equals a, t, g, or c
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (403)..(405)
178 <223> OTHER INFORMATION: n equals a, t, g, or c
179 <220> FEATURE:
180 <221> NAME/KEY: misc_feature
181 <222> LOCATION: (407)
182 <223> OTHER INFORMATION: n equals a, t, g, or c
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <222> LOCATION: (409)
186 <223> OTHER INFORMATION: n equals a, t, g, or c
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <222> LOCATION: (413)
190 <223> OTHER INFORMATION: n equals a, t, g, or c
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (415)..(416)
194 <223> OTHER INFORMATION: n equals a, t, g, or c

PAGE: 5


RAW SEQUENCE LISTING
PATENT APPLICATION US/09/115,832ADATE: 11/09/1998
TIME: 15:25:05

Input Set: I115832A.RAW

195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (420)
198 <223> OTHER INFORMATION: n equals a, t, g, or c
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION: (423)
202 <223> OTHER INFORMATION: n equals a, t, g, or c
203 <220> FEATURE:
204 <221> NAME/KEY: misc_feature
205 <222> LOCATION: (428)
206 <223> OTHER INFORMATION: n equals a, t, g, or c
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (433)
210 <223> OTHER INFORMATION: n equals a, t, g, or c
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (435)..(436)
214 <223> OTHER INFORMATION: n equals a, t, g, or c
215 <220> FEATURE:
216 <221> NAME/KEY: misc_feature
217 <222> LOCATION: (440)
218 <223> OTHER INFORMATION: n equals a, t, g, or c
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature
221 <222> LOCATION: (450)
222 <223> OTHER INFORMATION: n equals a, t, g, or c
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature
225 <222> LOCATION: (452)..(453)
226 <223> OTHER INFORMATION: n equals a, t, g, or c
227 <220> FEATURE:
228 <221> NAME/KEY: misc_feature
229 <222> LOCATION: (460)
230 <223> OTHER INFORMATION: n equals a, t, g, or c
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (465)
234 <223> OTHER INFORMATION: n equals a, t, g, or c
235 <220> FEATURE:
236 <221> NAME/KEY: misc_feature
237 <222> LOCATION: (467)
238 <223> OTHER INFORMATION: n equals a, t, g, or c
239 <220> FEATURE:
240 <221> NAME/KEY: misc_feature
241 <222> LOCATION: (470)
242 <223> OTHER INFORMATION: n equals a, t, g, or c
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



Input Set: I115832A.RAW

Line	?	Error/Warning	Original Text
256	W	"N" or "Xaa" used: Feature required	aattcggcac gantccaggc gggcagcagc tgcaggct
258	W	"N" or "Xaa" used: Feature required	cccaggagcc ccaaaagcaa gaggaagggg caagggcg
259	W	"N" or "Xaa" used: Feature required	ctcaccagggt gccactggac ctggtgtcac ggntgaaa
260	W	"N" or "Xaa" used: Feature required	atgagaggaa catcgaggag atggtggccc agctgagg
261	W	"N" or "Xaa" used: Feature required	agaaagtttg angntcaact ttncaagctt ntgggtnt
262	W	"N" or "Xaa" used: Feature required	ttncntggng gttannagta tgaatncaag nancncan
263	W	"N" or "Xaa" used: Feature required	tcnggagnac gtntnncttn tttttttggn tnnttgaa
264	W	"N" or "Xaa" used: Feature required	ctagaattgn tnagggtg